



Mission of the CaFCP

To demonstrate in California the potential for fuel cellpowered vehicles as a safe, practical, clean and efficient alternative to vehicles powered by internal combustion engines by:

- Demonstrating vehicle technology
- Demonstrating alternative fuel infrastructure
- Exploring the path to commercialization
- Increasing public awareness

--From CaFCP Statement of Intent



Automotive Partners

DaimlerChrysler



NISSAN HONDA







Ford Motor Company,



Energy Partners





ChevronTexaco ExconMobil



Technology Partners

BALLARD®





Government Partners













Environmental and Energy Statement of Intent

The California Fuel Cell Partnership is committed to promoting fuel cell vehicle commercialization as a means of moving toward a sustainable energy future, increasing energy efficiency and reducing or eliminating air pollutants and greenhouse gas emissions

Adopted by the CaFCP Steering Team, July 2000



2001 and 2002 activities

2001 Highlights: Taking it to the streets!

- ✓ HQ facility up and running with tenants
- ✓ 25 public outreach events reaching 175,000 people

- ✓ Vehicles driving in real-world conditions
- ✓ Hydrogen fueling experience
- ✓ Fuel Scenarios Study released

2002 Goals: Deliver now to shape the future!

- Operate 20 CaFCP vehicles, accumulating 60,000 miles
- Educate two regional emergency response agencies
- Install Methanol Station at West Sacramento HQ
- Install Hydrogen Station in Richmond, as well as two additional Hydrogen Stations
- Establish H2 Vehicle Facilities Study
- Announce CaFCP plans beyond 2003
- Reach 250,000 people via Outreach Events
- Provide 1,000 Teacher Learning Kits to Middle and High School Science Teachers



Headquarters Facility



- Grand Opening November 1, 2000
 - West Sacramento, CA
- Operations and fueling base for FC passenger vehicles
- Partnership office and public gallery
- Monthly tours and special events



The Vehicles **Progress Together**



76,500 miles

4600 riders/drivers



Fuel Infrastructure Gaining Experience







MeOH station opened
4/25/02
METHANEX

- Provided by Energy Partners
- Liquid H₂ stored in 4500 gallon tank
- Delivers gaseous hydrogen at two pressures:
 - ✓ 3600 psi & 5000 psi
- Fill time ≤ 4 min.

1500 fueling events





Additional Fuel Stations

• Satellite H₂ fueling October 2002

Richmond, CA

• SunLine Transit facility on-site

Others TBD











Bus Demo Transit Agencies



Alameda Contra Costa Transit East Bay Area



Santa Clara Valley Transportation
Authority



SunLine Transit Agency Coachella Valley





Fuel Cell Buses

Demonstration will include 7 "first generation" fuel cell buses operated at 3 transit agencies

- 3 AC Transit (VanHool/ISE/UTC)
- 3 Santa Clara VTA (Gillig/Ballard)
- 1 SunLine (VanHool/ISE/UTC)

Delivery of buses expected in 2004

Two year in-service demonstration

Data collection/evaluation report at end of in-service demonstration







Fuel Scenarios Study

Completed: October 2001

Purpose: Examine the path to

commercialization for each of four

fuel scenarios:

✓ Hydrogen

✓ Methanol

✓ Gasoline

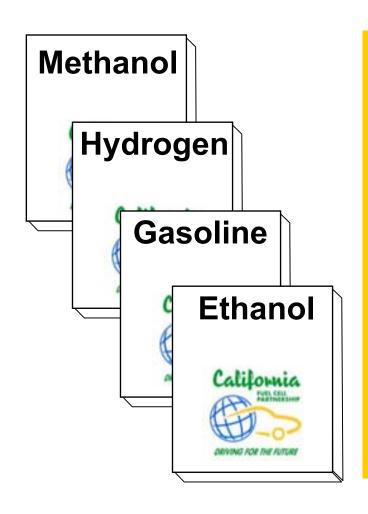


- > What are the success scenarios for FCVs?
- What are the technical and economic challenges for each fuel?
- What can industry and government do to assist?

Available to view or download on website: www.cafcp.org



Key Study Conclusions



- ✓ Revolutionary changes
- ✓ Important societal and personal benefits
- ✓ All infrastructure issues appear solvable
- ✓ Ethanol limited; other fuels all possible
- ✓ All fuels need improved fuel processing
- ✓ Early marketing challenging but possible
- ✓ Demo phase will prepare FCVs and public
- ✓ Important support role for government

Activities are in progress in all key areas



Public Outreach



Over 100 HQ tours

2 High School Classes





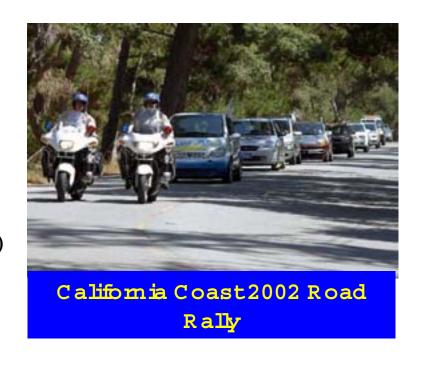
Events



- Marathons, County Fairs, Conferences,
 Community Days, Ride 'n Drives
- Michelin Bibendum Road Rally 2001
- CaFCP Technology Forum

2002 Highlights:

- Future Car Congress, Virginia (June 2-5)
- San Diego County Fair (June 28-30)
- CaFCP Central Coast Road Rally (Sep 4-7)
- Fuel Cell Seminar, Palm Springs (Nov 18-21)
- Monthly Community Events





Plans for CaFCP 2004-2007

- Current charter runs through 2003
- CaFCP will continue as an organization, with a focus on:
 - Placing vehicles and fuel in the hands of realworld users
 - Demonstration of fuel alternatives
 - Expanded education and outreach
- An announcement of further details is expected by the end of 2002



Visit us at www.fuelcellpartnership.org